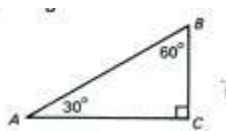


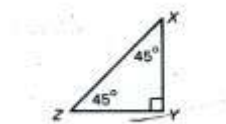
Special Right Triangles Worksheet

Exercises 1-6 refer to the 30-60-90 triangle. Using the given information, find the indicated length.



1. $AB=14$; $BC=$
2. $BC=7$; $AB=$
3. $BC=8$; $AC=$
4. $AB=16$; $AC=$
5. $AC=9\sqrt{3}$; $BC=$
6. $AC=4\sqrt{3}$; $AB=$

Exercises 7-12 refer to the 45-45-90 triangle. Using the given information, find the indicated length.



7. $XY=7$; $XZ=$
8. $YZ=10$; $XZ=$
9. $XZ=11\sqrt{2}$; $YZ=$
10. $XZ=10$; $XY=$
11. $YZ=7\sqrt{2}$; $XZ=$
12. $XZ=12$; $YZ=$

13. The length of the hypotenuse of a 30-60-90 triangle is 20. What is the length of the shorter leg?

14. A ladder leaning against a wall makes a 60 angle with the ground. The base of the ladder is 3 m from the building. How high above the ground is the top of the ladder?

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